

PRODUCTION OF ALPHA-OLEFIN OLIGOMER

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Abstract of JP7118175

PURPOSE:To provide a process for the production of an alpha-olefin oligomer on an industrial scale at a low cost, capable of producing an alpha-olefin oligomer such as 1-hexene in high yield and selectivity and effective for reducing the cost of solvent. **CONSTITUTION:**An alpha-olefin oligomer is produced by using a chromium-based catalyst. A catalyst system consisting of a combination of at least a chromium compound with an amine or a metal amide and an alkylaluminum compound is used as the chromium-based catalyst, an alpha-olefin is oligomerized in a saturated hydrocarbon solvent in the presence of the catalyst system at ≤ 70 deg.C, the by-produced polymer is separated and removed from the obtained reaction liquid, a part of the obtained alpha-olefin oligomer is hydrogenated to a saturated hydrocarbon and the saturated hydrocarbon is circulated to the polymerization reaction system.

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